PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450



Alexandria, VA 22313-1450							
		NEW APPLICATION TRANSMITTAL Under 37 CFR § 1.53(b)					
Transr	nitted he	erewith for filing is the patent application of					
Invento	or(s):	Tom Westberg; Mark Vandlik; and Rohit Vishnoi					
	'(a)	C.F.R. § 1.41(a)(1) points out: A patent is applied for in the name or names of the actual inventor or inventors. (1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration a prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(c). If an oath or declaration a prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is the inventorship set forth in the application papers filed pursuant to § 1. 53(b), unless a petition under the paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors.					
For (tit	le):	Fluid Pressure Actuated Blood Pumping Systems and Methods with Continuous Inflow and Pulsatile Outflow Conditions					
1.	Type of This n [x]	of Application ew application is for a(n) Original (nonprovisional) Design Plant					
NOTE: If one of the following 3 items apply then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSWHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION FILING OF THIS CONTINUATION APPLICATION.							
	[]	Divisional. Continuation. Continuation-in-part (C-I-P).					
2 .	Benef [x]	Fit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121) The new application being transmitted claims the benefit of prior U.S. application Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENIOF PRIOR U.S. APPLICATION(S) CLAIMED.	n(s). EFIT				
		CERTIFICATION UNDER 37 C.F.R. 1.10°					
United S	States Pos	at this New Application Transmittal and the documents referred to as attached therein are being deposited wistal Service on this date 20 April 2004, in an envelope as Express Mail Post Office to Addressee' mailing addressed as follows: Mail Stop Patent Applic Patents, PO Box 1450, Alexandria, VA 22313-1450	Label				
•		(type or print name of person mailing paper) Signature of person mailing paper	<u> </u>				

(Application Transmittal - page 1 of 5)

	plication
	132 Pages of specification
	01 Pages of claims
	01 Abstract
	Sheets of drawing [x] formal
	[x] formal [] informal
B. Oth	er documents enclosed:
` <u> </u>	
Additi	onal papers enclosed
[]	Preliminary Amendment
[x]	Information Disclosure Statement (37 C.F.R. 1.98)
[x]	Form PTO-1449 (PTO/SB/08A and 08B) Citations
[]	Declaration of Biological Deposit
[]	Submission of "Sequence Listing," computer readable copy and/or amendment perta
LJ	thereto for biotechnology invention containing nucleotide and/or amino acid sequence
[]	Authorization of Attorney(s) to Accept and Follow Instructions from Representative
ii	Special Comments
ij	Other
Decla	ration or oath
[]	Enclosed
	[] newly executed
_	[] copy from parent application identified above
Execu	ted by (check all applicable boxes)
	[] inventor(s). [] legal representative of inventor(s).
	[] joint inventor or person showing a proprietary interest on behalf of inventor
	refused to sign or cannot be reached.
	[] This is the petition required by 37 CFR 1.47 and the statement require 37 CFR 1.47 is also attached. See Item 13 below for fee.
[x]	Not Enclosed.
	[x] Application is made by a person authorized under 37 C.F.R. 1.41(c) on behalf
	the above named inventor(s). (The declaration or oath, along with the surch required by 37 CFR 1. 16(e) can be filed subsequently).
	required by 37 CFR 1. To(e) can be filed subsequently).
Invent	torship Statement
The in	ventorship for all the claims in this application are:
1110 111	The same.
[x]	the same.
	Not the same. An explanation, including the ownership of the various claims at the tim
[x]	Not the same. An explanation, including the ownership of the various claims at the time last claimed invention was made [] is submitted.

7.	Language										
	[x] English [] Non-English										
	. ,		The attack		ation includes	a stateme	nt that the trans	slation is accurate. 37			
8.	Assig	nment .									
	[x]	An ass [] [x] []	is attached ACCOMP attached. will follow.	d. A sepa ANYING I	ion to <u>Baxte</u> rate [] COVI NEW PATENT ant application i	ER SHEET APPLICAT	FOR ASSIGNI	MENT (DOCUMENT) RM PTO 1595 is also			
9.	CERTIFIED COPY										
	Certifie	ed copy(i	es) of appli	cation(s)			•				
	Country				Appln. No.			Filed			
	Country		-	_	Appln. No.			Filed			
	Country				Appin. No.			Filed			
	Country	-			Appin. No.			Filed			
	from w	hich prio	rity is claim	ed ·							
	[]	is (are) will follo	attached. ow.			•					
NOTE:	The fore and 1.63		tion forming th	e basis for th	e clam for priority r	nust be referr	ed to in the oath or d	eclaration. 37 CFR 1.55(a)			
10.	Fee Calculation (37 C.F.R. 1.16)										
	A.	[x]	Regular a	pplication							
				(CLAIMS AS FIL	.ED					
		·		Number Filed	Number Included in Basic Fee	Number Extra	Rate	Basic Fee 37 CFR 1.18(a) \$770.00			
Total C	laims 37 (CFR 1:16(d	c) `	1	-20 =	(19)	x \$ 18.00	. \$0			
Independent Claims (37 CFR 1.16(b)				1	-3 =	(2)	x \$ 86.00	\$0			
Multiple CFR 1		ent daim(s) if any (37				\$290.00	\$0			
FILING FEE CALCULATION								\$770			
_ _		[]	Amendme	nt deleting	ing extra claim g multiple-depe is not being pa	ndencies (enclosed. ime.	. 770.00			

	B .	[]	Design application (\$340.00 - 37 CFR 1.16(f)) Filing Fee Calculation	
	C.	[]	Plant application (\$530.00 - 37 CFR 1.16(g)) Filing Fee Calculation	
11.	Small	Entity S The apentity s	Statement pplicant is a Small Entity as defined by 37 CFR 1. status. Small Entity Filing Fee:	
12.	Fee P		Being Made at This Time nclosed No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. 1	. 16(e) can be paid subsequently.)
	[x]	Enclos [x] [] [] []		770.00
13.	Metho [x]	Check Charg	ayment of Fees k in the amount of \$ in the amount of	
14.	Autho	The C	n to Charge Additional Fees Commissioner is hereby authorized to charge the folluring the entire pendency of this application to Ac 37 C.F.R. 1.16(a), (f) or (g) (filing fees) 37 C.F.R. 1.16(b), (c) and (d) (presentation of 6 37 C.F.R. 1.16(e) (surcharge for filing the basic flater than the filing date of the application) 37 C.F.R. §§ 1.17(a)(I-5) (extension fees pursu 37 C.F.R. 1.17 (application processing fees) 37 C.F.R. 1.18 (issue fee at or before mailing of C.F.R. 1.311(b))	extra claims) illing fee and/or declaration on a date tant to § 1.136(a)).

15.		ctions as to Overpaymen						
	[x] []	Credit Account No Refund	06-2360					
_	No. 29,2 lo.: (262)	43 783 - 1300	SIGNATURE OF PRACTITIONER Daniel D. Ryan (type or print name of attorney) RYAN KROMHOLZ & MANION, S.C. (P.O. Address) Post Office Box 26618					
			MILWAUKEE, WISCONSIN 53226					
[×]	Sta	itement Where Additions	al Pages are Added					
	[x	Plus Added Pag Application(s) Cla	ge for New Application Transmittal Where Benefit of Prior U.S aimed					
[]	(if ı	Statement Where No Further Pages Added (if no further pages form a part of this Transmittal, then end this Transmittal with this page a check the following item)						
	[]	This transmittal e	ends with this page.					

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ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

NOTE: "In order for an application to claim the benefit of a prior filed copending national application, the prior application must name as an inventor at least one Inventor named in the later filed application and disclose the named inventor's invention claimed in at least one claim of the later filed application in the manner provided by the first paragraph of 35 U.S.C. 112." 37 CFR 1.78(a).

NOTE: "IN ADDITION THE PRIOR APPLICATION MUST BE (1) COMPLETE AS SET FORTH IN S 1.51, OR (2) ENTITLED TO A FILING DATE AS SET FORTH IN S 1.53(B) AND INCLUDE THE BASIC FILING FEE SET FORTH IN S 1.16; OR (3) ENTITLED TO A FILING DATE AS SET FORTH IN S 1.53(B) AND HAVE PAID THEREIN THE PROCESSING AND RETENTION FEE SET FORTH IN S 1.21(L) WITHIN THE TIME PERIOD SET FORTH IN S 1.53(D). "37 CFR 1.78(A).

16. Relate Back-35 U.S.C. 120

NOTE: "ANY APPLICATION CLAIMING THE BENEFIT OF A PRIOR FILED COPENDING NATIONAL OR INTERNATIONAL APPLICATION MUST CONTAIN OR BE AMENDED TO CONTAIN IN THE FIRST SENTENCE OF THE SPECIFICATION FOLLOWING THE TITLE A REFERENCE TO SUCH PRIOR APPLICATION IDENTIFYING IT BY SERIAL NUMBER AND FILING DATE OR INTERNATIONAL APPLICATION NUMBER AND INTERNATIONAL FILING DATE AND INDICATING THE RELATIONSHIP OF THE APPLICATIONS." 37 CFR 1.78(A). SEE ALSO THE NOTICE OF APRIL 28, 1987 (1079 O.G. 32 TO 46).

[X] The specification includes the following recitation:

Related Applications:

This application claims the benefit of co-pending application Serial No. 09/390,265 filed 3 September 1999 and entitled "Fluid Pressure Actuated Blood Pumping Systems and Methods with Continuous Inflow and Pulsatile Outflow Conditions". This application also claims the benefit of copending patent application Serial No. 09/390,268 filed 3 September 1999 and entitled "Programmable Fluid Pressure Actuated Blood Processing Systems and Methods".

NOTE: THE PROPER REFERENCE TO A PRIOR FILED PCT APPLICATION WHICH ENTERED THE U.S. NATIONAL PHASE IS THE U.S. SERIAL NUMBER AND THE FILING DATE OF THE PCT APPLICATION WHICH DESIGNATED THE U.S.

NOTE: (1) WHERE THE APPLICATION BEING TRANSMITTED ADDS SUBJECT MATTER TO THE INTERNATIONAL APPLICATION THEN THE FILING CAN BE AS A CONTINUATION-IN-PART OR (2) IT IS DESIRED TO DO SO FOR OTHER REASONS, E.G. WHERE NO DECLARATION IS AVAILABLE, NO ENGLISH TRANSLATION IS AVAILABLE OR NO FEE IS TO BE PAID ON FILING THEN THE FILING CAN BE AS A CONTINUATION. IN THESE CASES THE INTERNATIONAL APPLICATION DESIGNATING THE U.S. IS TREATED AS THE PARENT CASE IN THE U.S. AND IS ANALTERNATIVE TO THE COMPLETION OF THE INTERNATIONAL APPLICATION UNDER 35 U.S.C. 371(C)(4) WHICH MUST MEET THE REQUIREMENTS OF 37 CFR 1.61(A). THIS ALTERNATIVE PERMITS THE COMPLETION OF THE FILING REQUIREMENTS WITHIN ANY TERM SET BY THE PTO UNDER 37 CFR 1.53(D) TO WHICH THE EXTENSION PROVISIONS OF 37 CFR 1.136(A) APPLY. (WHEREAS, IF THE FILING IS AS AN INTERNATIONAL APPLICATION ENTERING THE U.S. STAGE THEN THE FEE, DECLARATION AND/OR ENGLISH TRANSLATION (WHERE NECESSARY) IS DUE WITHIN 20 MONTHS OF THE PRIORITY DATE BUT CAN BE PAID WITHIN 22 MONTHS OF THE PRIORITY DATE (OR IS DUE WITHIN 30 MONTHS OF THE PRIORITY DATE BUT CAN BE SUBMITTED WITHIN 32 MONTHS OF THE PRIORITY DATE) WITH THE SURCHARGES SET FORTH IN 37 CFR 1.495(C); HOWEVER, THE PROVISIONS OF 37 CFR 1.136 DO NOT APPLY TO THIS 22 OR (32 MONTH) PERIOD. 37 CFR 1.61(B).)

NOTE: THE DEADLINE FOR ENTERING THE NATIONAL PHASE IN THE U.S. FOR AN INTERNATIONAL APPLICATION WAS CLARIFIED IN THE NOTICE OF APRIL 28, 1987 (1079 O.G. 32 TO 46) AS FOLLOWS:

"The Patent and Trademark Office considers the International application to be pending until the 22nd month from the priority date if the United States has been designated and no Demand for International Preliminary Exemination has been filed prior to the expiration of the 19th month from the priority date and until the 32nd month from the priority date if a Demand for International Preliminary Exemination which elected the United States of America has been filed prior to the expiration of the 19th month from the priority date, provided that a copy of the international application has been communicated to the Patent

and Trademark Office within the 20 or 30 month period respectively. If a copy of the international application has not been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively, the international application becomes abandoned as to the United States 20 or 30 months from the priority date respectively. These periods have been placed in the rules as paragraph (h) of S 1.494 and paragraph (i) of S 1.495. A continuing application under 35 U.S.C. 365(c) and 120 may be filed anytime during the pendency of the international application."

17.	Relate Back-35 U.S.C.	119 Priority Claim	for Prior Application
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application. 37 cfr 1.60(c). (Dealing with the continuation situation).

	The pridice identified	or U.S. ed abov	applicat e in iter	ion(s), includin n 17, in turn its	g any prio self claim(s	r International / s) foreign priori	Application designating the U.S., ity (ies) as follows:
	country	· ·		appl.	no.	filed or	
	[]	been fi	led on _ attach	ed			which was filed on
WARNIN	Bure appli is pl disp the i folde cont	eau may ilication. The aced in a cosed of if corosecution folders are are, make tinuing ap	not be reli his is so b folder and the nation on of a cor ad transfer suitable r plication a	ed on without any ecause the certifier is not assigned a al stage is not ente atinuing application them to the continuations to	need to file I copy of the U.S. Serial N I con Therefor An alternation I consider the ce Cordingly, the p	a Certified Copy of priority application of fumber unless the re such certified copy ve would be to phy- tion. The resources prified copies, enter priority documents in the priority documents in the priority documents in priority documents in priority documents in the priority do	of the priority application in the continuing communicated by the International Bureau national stage is entered. Such folders are pies may not be available if needed later in sically remove the priority documents from a required to request transfer, retrieve the r and make a record of such copies in the n folders of international applications which
18.	Mainte	nance	of Cop	endency of P	rior Applic	cation	
NOTE:	The PTO	finds it u onstituting	seful if a c the filing	copy of the petition of the continuation	filed in the pri application.	ior application exter	nding the term for response is filed with the
	A .	įį	Exten []	application u	ee and re	sponse extend	ds the term in the pending prior plication is attached
	B.	[]	Condi []	A conditional prior application	l petition fo tion.	or extension of	in Prior Application time is being filed in the pending in the prior application is attached
19.	Furthe	r Inver	ntorship	Statement V	/here Ber	efit of Prior A	pplication(s) Claimed
NOTE:	If the continuation, continuation-in-part, or divisional application is filed by less than all the inventors named in the prior application a statement must accompany the application when filed requesting deletion of the names of the person or persons who are not inventors of the invention being claimed in the continuation, continuation-in-part, or divisional application. 37 CFR 1.62(a)						
NOTE:	declarati addītiona	on as req al subject anal appli ration is r	uired by matter bei cation white equired ar	§ 1.63 must be file ing claimed, addition ob discloses and c	ed. In those s nal inventors laims only sui nust name as	iduations where a may be named in t bject matter disclos s inventors the sam	ional disclosure by amendment, an oath one oath or declaration is required due to the continuing application. In a continuation and in a prior application, no additional oath are or less than all the inventors in the prior

	(a)	[]	This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are [] the same. [] the following inventor(s) have been deleted:				
			[] the following inventor(s) have been added:				
	(b)	[]	This application discloses and claims additional disclosure and a new declaration or oath is being filed. With respect to the prior application the inventor(s) in this application are I 1 the same.				
			the following inventor(s) have been deleted:				
			the following inventor(s) have been added:				
	(c)	The inv	ventorship for all the claims in this application are the same. not the same, and an explanation, including the ownership of the various claims at the time the last claimed invention was made [] is submitted. [] will be submitted.				
20.	Aband	Please when t when t	ent of Prior Application (if applicable) se abandon the prior application at a time while the prior application is pending or the petition for extension of time or to revive in that application is granted and this application is granted a filing date so as to make this application copending said prior application.				
NOTE:	E: ACCORDING TO THE NOTICE OF MAY 13, 1983 (103, TMOG 6-7) THE FILING OF A CONTINUATION CONTINUATION-IN-PART APPLICATION IS A PROPER RESPONSE WITH RESPECT TO A PETITION FOR EXTENDED FINE OR A PETITION TO REVIVE AND SHOULD INCLUDE THE EXPRESS ABANDONMENT OF THE PAPLICATION CONDITIONED UPON THE GRANTING OF THE PETITION AND THE GRANTING OF A FILING DATE THE CONTINUING APPLICATION.						